

The future is colourful



AkzoNobel

www.zweihorn.com

Introduction



Zweihorn® pigmented topcoat mixing systems bring colour to life

Zweihorn[®] pigmented topcoats offer a wide range of options for opaque coating and decorative design on wood and wood-based materials. Sometimes, they can even be used without a special primer to paint glass, metal and plastic. All pigmented topcoat mixing systems, solvent-based or waterborne, are available in almost all standard colours, such as NCS, RAL, Sikkens, etc. or according to customer samples. In addition, numerous effects or beneficial surfaces offer more interesting alternatives for creative surface finishes.

Regardless of whether you opt for a solvent-based or waterborne coating, all system components are 100% compatible with each other. They are of high quality, meet the latest technological standards and offer users numerous benefits for a perfect professional result.

Spectacular effects

Solvent-based or waterborne effects are available as ready-tosurfaces that offer additional benefits to the end customer, use products and many other effects that you, as a craftsman, such as scratch-resistant, magnetic or paintable surfaces. can achieve using special processes or treatments. Modern 3D effects, such as rust or concrete-look finishes, can be created using Unocryl Structure Primer. There are also

Effects as ready-to-use products





Metallic basecoat

Individual effects





Marble effect



Drop effect

Flow effect

Concrete effect



Stopping effect

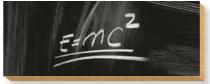


WNC/VCC



Rust effect (light)

Beneficial surfaces



Magnetic paint (magnetic)

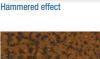
*Tintable with WNC/- or VCC/colour (max. 50%)

Chalkboard paint (painting with chalk)









2

WNC/MB or VCC/MB



WNC/VCC



WNC/VCC



WNC/VCC







Gold lacquer

WNC/Gold or VCC/Gold



Mottling effect

WNC/VC0



Brushed lacquer effect

WNC//CO



Crackle finish effect



Rust effect (dark)



Perfect on all surfaces

Wigranit[®] Novacolor and Variocryl[®] Color are suitable for al- can be painted following the appropriate treatment. most all substrates. In addition to wood and wood-based materials, metals and plastics can also be coated. Even glass





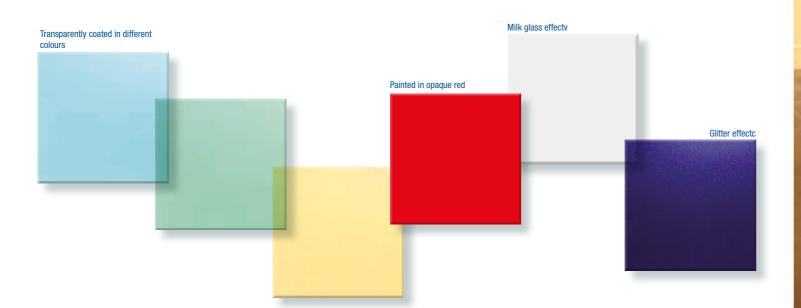






Glass painting

In combination with GDL Glass Design Varnish and tive to coloured or patterned glass, especially if only smaller Zweihorn® solvent-based varnish or Variocryl® waterborne quantities are needed! The description of the glass effects varnish with glass paint hardener, glass can be integrated into shown here can be found under www.zweihorn.com any interior as a coloured component (often as a high gloss substitute). Transparent effects, e.g., etched or sandblasted glass or drops are also possible and allow endless scope for creativity. Thus, glass-painting offers an inexpensive alterna-



Solvent-based pigmented topcoats



Wigranit[®] Novacolor WNC is a multi-talent and can therefore be used universally. Thanks to its high hiding power, a single coat is often enough. Due to its excellent filling power and very good antisagging properties, the high quality pigmented 2K-PU topcoat is suitable for coating vertical surfaces. Wigranit[®] Novacolor is formaldehyde-free, fire-retardant, lightfast and extremely durable.



Solvent-based pigmented topcoats



Solvent-based pigmented topcoats



perfect on all substrates

Wigranit[®] Novacolor WNC can, in many cases, also be applied onto wood, wooden materials, plastics and metals without any filler or primer. However, it is safer to apply it on the quality. The descriptions for this can be found in the respective premium primer, Wigranit[®] Insulating Primer IF, or in particularly difficult cases, on HVM Adhesion Promoter. Adhesion

should be checked in advance in all cases, as the different materials can vary widely depending on manufacture and technical data sheets under www.zweihorn.com

Coating MDF has always been a question of quality. Depend-Residues Primer. After coating with Wigranit[®] Novacolor, the ing on the origin and quality of the MDF panels, one can coloured surface can be protected with Crystallit® clear topachieve good results using the pigmented topcoat Wigranit® coat and varied by degrees from dead matt to high gloss. The Novacolor on its own. But if you want to build high-quality description can be found in the technical data sheets under furniture, you should apply traditionally layered coats of paints www.zweihorn.com using Wigranit® IF Insulating Primer or tinted Wigranit® RF

Three-layer panels



In the case of distortion-free three-layer panels, simply apply Wigranit[®] Novacolor, sand the board and apply the product again. If desired, a coat of Crystallit® clear topcoat can also be applied

Particle board veneered



Sand, apply diluted Wigranit® Novacolor, sand again and coat again with WNC. By doing so, the wood grain is preserved. If desired, coat with Crystallit[®] clear topcoat once.

Metal

Plastic panel

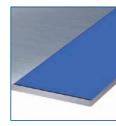
Clean (slightly sand, if re-

quired) and then coat with

coat can also be applied. *

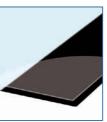
Wigranit® Novacolor, If desired

a coat of Crystallit® clear top-



Metals such as iron, copper. chrome and aluminium can now be coated directly with Wigranit[®] sealing filler. Prior cleaning and degreasing and a light sanding are sufficient. If desired, a coat of Crystallit clear topcoat can also be applied.

Glass



After thoroughly cleaning the glass substrate with SAR Special Adhesion Cleanser GDL SPECIAL Glass Design Varnish can be applied directly to the desired effect. Achieve your desired effect by choosing the right GDL SPECIAL Glass Design Varnish e.g. WIGRANIT® Novacolor.

Wigranit[®] Insulating Primer IF



The premium primer for all high quality objects and wet room facilities

Wigranit[®] Residues Primer RF



Mixed with a maximum of 50% of WNC/colour, RF can be used as tinted insulating primer



Solvent-based pigmented topcoats

Wigranit[®] Primer WIG/F



The inexpensive primer for less demanding applications

Wigranit[®] Novacolor pigmented topcoats optimise and improve

Wigranit® Novacolor WNC drying can be optimised using the the wishes of your customers, you can improve the pigmented appropriate additives. Further additives improve the perfor- topcoat to meet the respective requirements. mance or change the appearance of the pigmented topcoat. Thus, depending on the circumstances at your workshop and

Drying optimisation



Retarder

Zweihorn® Retarder VZ slows drying and prevents blistering, flow defects or clouding of the coating surface. Indispensable in extreme climate conditions such as high temperatures (addition 1-5%).

Turbo accelerator

If faster chemical curing of the paint is desired, Zweihorn® Turbo Accelerator BS is the right additive. It serves as a catalyst to accelerate the drying process for solvent-based coatings. It is ideally suited as an additive (up to 2%) for Wigranit[®] Novacolor when it comes to saving time while simultaneously achieving optimal results.



Wigranit® Novacolor Pigmented High Gloss Topcoat achieving high gloss faster

Wigranit[®] Novacolor Pigmented High Gloss Topcoat WNCH polished very well with Zweihorn[®] High Gloss Polishing can be used in the build-up of layers with premium primer Paste. The descriptions for this can be found in the respec-Wigranit[®] Insulating Primer on almost all substrates. WNCH tive technical data sheets under www.zweihorn.com is used where you want to produce a colourful, high gloss finish quickly and cost-effectively. The coloured surface does not require any additional clear topcoat and can be

Performance improvement



Ring-Resistance Concentrate

Metal can leave traces of abrasion on bright colour tones in particular. By adding Ring-Resistance Concentrate RK (max. 10% addition to Wigranit® Novacolor), metal abrasion can be easily removed, e.g. by means of a microfibre cloth, from the Wigranit[®] Novacolor surface.

Structure powder

Structure Powder medium STP-M or fine STP-F can be used in Wigranit® Novacolor topcoats (max. 5% addition). By adding the structure powder, the coating surface becomes highly scratch-resistant, durable and, at the same time, more matt. For that reason, these coloured surfaces are particularly suitable for exhibition stand construction and shop fitting, tables, worktops and even for coloured stairs.

Flattening Concentrate

To get a more matt gloss level of Wigranit[®] Novacolor, Flattening Concentrate MK can be added to WNC (max. 10%).

Our colour tone service mixes your desired tone



All pigmented topcoat systems are available in almost any desired colour e.g according to RAL, Sikkens, NCS or your own sample.v

Solvent-based pigmented topcoats

Solvent-based pigmented topcoats



Crystallit[®] clear topcoats – perfect protection for all coloured surfaces

Crystallit[®] clear topcoats are the perfect partners for Wigranit[®] pigmented topcoats. They protect the coloured surfaces against mechanical stress and wear and tear. In addition to this, Crystallit[®] clear topcoats change the appearance. Using the high gloss clear topcoat, colour tones become more brilliant and the depth of effect is much better, or softer and more natural using the dead matt clear topcoat. Pigmented topcoat coating on MDF using Wigranit[®] insulating primer, Wigranit[®]

pigmented topcoat and Crystallit[®] clear topcoat provides the most long-lasting protection for all high-quality interior fittings. The descriptions for this can be found under www.zweihorn. com

All pigmented topcoat systems are available in almost any desired colour e.g. according to RAL, Sikkens, NCS or your own sample.



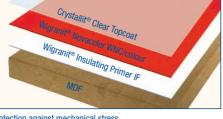
One hardener for all products in the coating system

The gloss levels for Crystallit[®] Clear Topcoat • CL 7 gloss • CL 0 matt

• CL-TM dead matt • CL 8 semi gloss • CL 9 semi matt

Perfect appearance and protection through six degrees of gloss

• CL-H high gloss



Protection against mechanical stress

coats





Waterborne pigmented topcoats

Waterborne pigmented topcoats

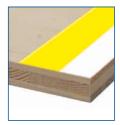


perfect on all substrates

on wood, wooden materials, plastics and metals. Adhesion should be checked in advance in all cases, as the different respective technical data sheets under www.zweihorn.com materials can vary widely depending on manufacture and quality. Then, the pigmented topcoat Variocryl® 1K or 2K is

Variofill® VF (hardened) is used as an insulating primer or primer applied and, if desired, finally coated with Variocryl® 1K or 2K Clear Topcoat. The descriptions for this can be found in the Because of roughening, MDF must always be primed with the applied. For all high gloss surfaces, we recommend the waterinsulating primer Variofill VF (hardened for wet rooms). The borne 2K-PU High Gloss Clear Topcoat Duocryl. The descrippigmented topcoat Variocryl[®] Color (hardened) also provides a tions can be found in the technical data sheets under www. metal abrasion resistant surface without a clear topcoat. If the zweihorn.com stress increases, or if the gloss level varies from dead matt semi matt, Variocryl® Clear Topcoat (hardened) must finally be

Three-ply board



Sanden, apply Variofill® 1K (2K in the case of resinous wood). sand and repeat the procedure, if required. Then apply Variocryl[®] Color Pigmented Topcoat1K or 2K and, if desired, apply a final coat of Variocryl[®] Clear Topcoat 1K or 2K. 3

Particle board, veneered



Sand, apply Variofill® 1K (in case of exotic wood or veneers rich in extractives, 2K), sand and repeat the procedure, if required. Apply Variocryl® Color 1K or 2K and if desired apply a final coat of Variocryl® Clear Topcoat 1K or 2K. *

Metal

Plastic panel

Clean (slightly sand, if re-

quired) and then coat with

the procedure, if required.

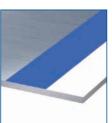
2K and, if desired, apply a

Topcoat 1K or 2K.

Apply Variocryl® Color 1K or

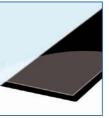
final coat of Variocryl® Clear

Variofill[®] 2K, sand and repeat



Metals such as iron, copper. chrome and aluminium must be cleaned, degreased and slightly sanded. Apply a thin coat of Variofill® 2K and, after slight sanding, apply a final coat of Variocryl[®] Color 1K or 2K. If desired, one coat of Crystallit® Clear Topcoat 1K or 2K can be applied. *

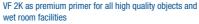
Glass



After thoroughly cleaning with Adhesion Cleanser SAR and after applying a coat of Insulating Primer DC-FI (with 20% of Glass Paint Hardener GLH), pigmented topcoats can be applied with Variocryl® color (with 10% of Glass Paint Hardener GLH).

Variofill[®] 2K = Insulating Primer





Variofill[®] 1K = Standard primer



VF 1K as standard primer for all objects with reduced stress

Waterborne pigmented topcoats



Variocryl[®] Color 2K = resistant against metal abrasion

Competing product	Variocryl [®] Color
	÷

VCC 2K is outstandingly resistant against metal abrasion even without a clear topcoal

Variocryl[®] Color pigmented topcoats - optimise and improve

propriate additives. Further additives improve the performance topcoat to meet the respective requirements. or change the appearance of the pigmented topcoat. Thus, depending on the circumstances at your workshop and the

Variocryl® Color VCC drying can be optimised using the ap- wishes of your customers, you can improve the pigmented

Drying optimisation



Variocryl[®] Optimizer

Using Variocryl® VO Optimizer, the so-called frame effect can be prevented, as the additive relaxes the paint surface more effectively. VO also optimises drying. The quantity added replaces the tap water. However, Duocryl High Gloss Clear Topcoat must not be applied with VO.

Performance improvement



Structure powder

Structure Powder medium STP-M or fine STP-F can be used in Variocryl® Color topcoats (max. 5% addition). By adding the structure powder, the coating surface becomes highly scratch-resistant, durable and, at the same time, more matt. For that reason, these coloured surfaces are particularly suitable for exhibition stand construction and shop fitting, tables, worktops and even for coloured stairs.

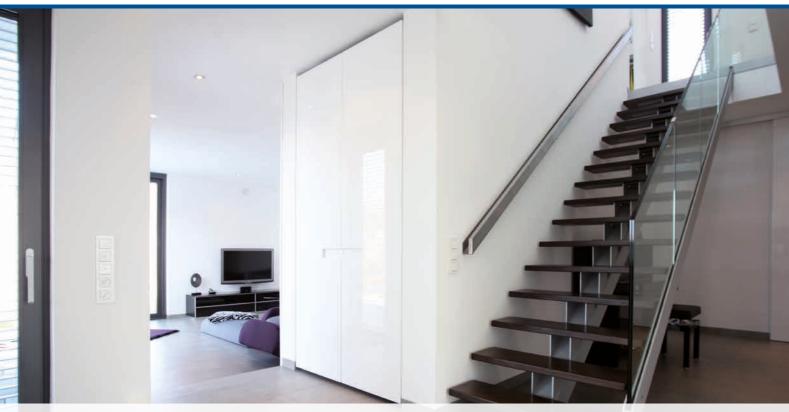
Aqua Matt Concentrate

To get a more matt gloss level of Variocryl® Color, Agua Matt Concentrate AMK can be added to VCC (max. 10%).



Variocryl[®] Brushing Additive

Variocryl® Brushing Additive VSZ allows you make Variocryl® Color Pigmented Topcoat VCC, which is optimised for spray application, into an excellent topcoat for brush application. A perfect solution, especially in the case of interior door renovations - doors are sprayed in the workshop and frames are painted on site to the same standard of quality. The quantity added is 10% and may only be used with hardened VCC.

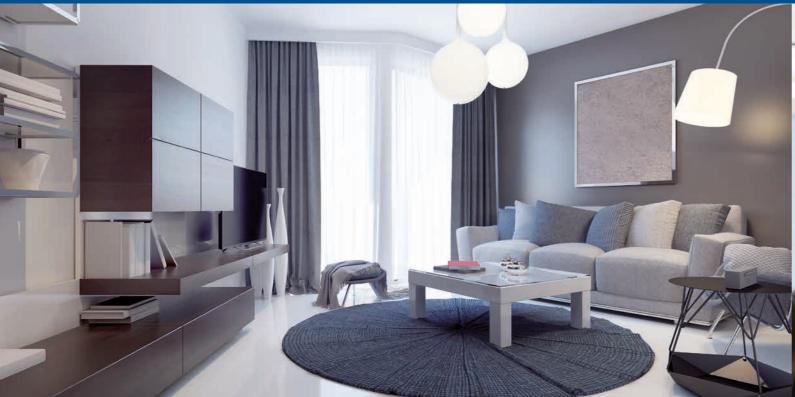


Duocryl High Gloss Clear Topcoat top quality workmanship - shining results

Perfect high-gloss surfaces can now also be achieved easily Deep black, pure white or rich colours are achieved to impresand safely with a waterborne clear topcoat: Duocryl 2K-PU sive effect as high-gloss surfaces. In order to build-up colour-High Gloss Clear Topcoat DC-HG is highly transparent and ed layers, the innovative Variofill VF white pigmented primer is creates impressive brilliance and depth, which could previousessential as a solid base. VF can be used economically as a ly only be achieved using solvent-based high gloss topcoats. 1K material for normal stress or as a premium insulating primer Using Zweihorn® PWH 3200 standard waterborne paint hardfor extreme demands by adding a hardener. This offers absoener at a ratio of 5:1, application is relatively straightforward. lute security, e.g. for kitchens or bathrooms. With the pig-DC-HG creates excellent condition on surfaces and edges mented topcoat systems Variocryl® Color VCC and Duocryl and performs very well even if the layer thicknesses are lower! High Gloss Clear Topcoat DC-HG, perfect, durable, water-Polishing with HPP high gloss polishing paste is very easy and borne surfaces can be created. quick.

Waterborne pigmented topcoats

Waterborne pigmented topcoats



Variocryl® and Duocryl clear topcoats every bit as good as solvent-based clear topcoats

Depending on the stress load, both of the clear topcoats offer perfect protection for pigmented topcoat surfaces. Variocryl® Clear Topcoat can be used as both a 1K or 2K product and is Ideal as a protective topcoat for extremely stressed pigmented suitable for heavy-duty use.

The transparent Duocryl 2K-PU Clear Topcoat surpasses Variocryl[®] Clear Topcoat with its extreme durability. As 2K-PU topcoats, they are absolutely comparable to Crystallit® clear

topcoats and also offer extreme hardness, scratch and abrasion resistance and very good cream and grease resistance. topcoat surfaces.



One hardener for all products in the coating system



- VC 9 semi matt • DC 0 matt
- VC 0 matt
- VC-TM dead matt

Perfect appearance and protection through many degrees of aloss

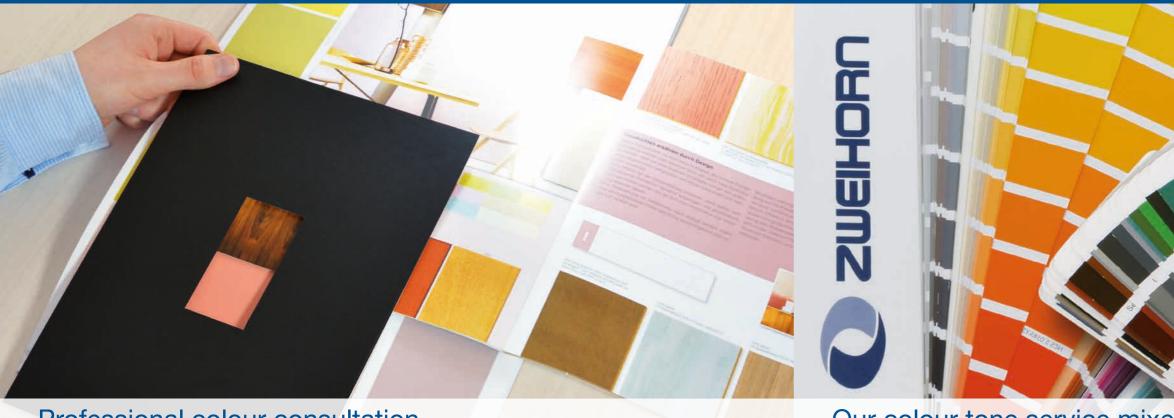


Protection against mechanical stress

and colour tone service



Services



Professional colour consultation

With our ColourFutures[™] and WoodFutures compendium, you can create a perfect interior colour concept for each customer - without any special training in design. At the AkzoNobel Aesthetic Centre, colour trends throughout the world are analysed together with renowned designers and architects every year. The colour trends of the year are selected from these and five colours worlds are developed to suit different customer groups according to the spirit of the times. You can also take advantage of our experts' knowledge!

Order your personal ColourFutures[™] and WoodFutures compendium directly from your Zweihorn[®] consultant.



Our colour tone service mixes your desired tone

With the pigmented topcoats Wigranit[®] and Variocryl[®], you can choose from over 16,000 colours according to NCS, RAL, Sikkens, sanitary ware colours, etc. or have a special colour tone mixed according to a customer sample (plastics, fabrics, etc.). Almost anything is possible using the colour measuring software developed by us.

Our dealers offer you this excellent colour service directly onsite. In addition to plain colours, there are also numerous effects, 3D surfaces and glass paints in many colour tones. Standard colours are usually delivered within 24 hours and often even on the same day. This guarantees a fast turnaround in the project planning phase and reduces the duration of the overall project.

Services







Akzo Nobel Hilden GmbH · Wood Coatings · Zweihorn Düsseldorfer Straße 96-100 · D-40721 Hilden/GERMANY Postfach 10 05 22 · D-40705 Hilden/GERMANY Phone: +49 (0) 21 03 / 77-800 · Fax: +49 (0) 21 03 / 77-577 www.zweihorn.com · E-Mail: zweihorn@akzonobel.com